

PATENT
Customer No. 22,852
Attorney Docket No. 9960.0001-06

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#19

In re Application of:

Keith Campbell et al.

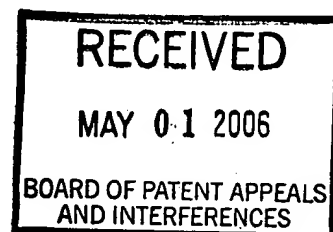
Serial No.: 09/989,126

Filed: November 21, 2001

)
)
) Group Art Unit: 1632
)
) Examiner: D. Crouch
)
) Confirmation No. 1814
)

For: UNACTIVATED OOCYTES AS CYTOPLAST
RECIPIENTS FOR NUCLEAR TRANSFER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450



Sir:


LETTER

Applicants submit herewith a Revocation of Power of Attorney and Grant of New
Power of Attorney and associated papers in the above-referenced application.

Kindly associate these papers with this application.

Respectfully submitted,

Dated: April 26, 2006

By: 
Salvatore J. Arrigo
Registration No. 46,063
Telephone: 202-408-4160
Facsimile: 202-408-4400
E-mail: arrigos@finnegan.com



PATENT
Customer No. 22,852

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Campbell et al.

U.S. Patent No. 6,252,133
(filed as Appln. No. 08/803,165)

U.S. Patent No. 6,525,243
(filed as Appln. No. 09/650,285)

Appln. No. 09/650,194

Appln. No. 09/658,862

Appln. No. 09/973,701

Appln. No. 09/989,125

Appln. No. 09/989,126

Appln. No. 09/989,128

Appln. No. 10/118,337

Appln. No. 10/151,304

Appln. No. 10/151,305

Appln. No. 10/190,611

Appln. No. 10/190,617

Appln. No. 10/234,854

Appln. No. 10/914,161

Appln. No. 10/909,845

Appln. No. 11/068,903

Group Art Unit: 1632

Examiner: D. Crouch

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

**REVOCATION OF POWER OF ATTORNEY
AND GRANT OF NEW POWER OF ATTORNEY**

The undersigned, a representative authorized to sign on behalf of the assignee owning all of the interest in this patent application, hereby revokes all previous powers of attorney or authorization of agent granted in this application before the date of execution hereof.

The undersigned verifies that Roslin Institute (Edinburgh) is the assignee of the entire right, title, and interest in the patents and applications identified above by virtue of assignments recorded at Reel 8582, Frames 0263-0264 (copy attached); Reel 9220, Frames 0250-0256 (copy attached); and Reel 017336, Frame 0136 (copy attached).

The undersigned certifies that the evidentiary documents have been reviewed and to the best of the undersigned's knowledge and belief, title is in the assignee Roslin Institute (Edinburgh).

The undersigned hereby grants its power of attorney to the patent practitioners associated with **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.**, Customer Number **22,852**, to prosecute U.S. 6,252,133 and U.S. 6,525,243 and all continuations, continuations-in-part, divisional, and reissue applications therefrom dependent including:

- Appln. No. 09/650,194
- Appln. No. 09/658,862
- Appln. No. 09/973,701
- Appln. No. 09/989,125
- Appln. No. 09/989,126
- Appln. No. 09/989,128
- Appln. No. 10/118,337
- Appln. No. 10/151,304
- Appln. No. 10/151,305
- Appln. No. 10/190,611
- Appln. No. 10/190,617
- Appln. No. 10/234,854
- Appln. No. 10/914,161
- Appln. No. 10/909,845
- Appln. No. 11/068,903

and to transact all business in the Patent and Trademark Office connected therewith, and to receive the Letters Patent(s).

Please send all future correspondence concerning this application to **Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., Customer No. 22,852.**

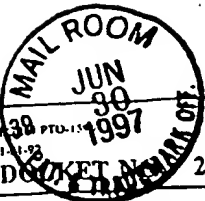
I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: 11th April 2006

By: Clare A Neilson
Name: CLARE AGNES NEILSON

Title: COMPANY SECRETARY

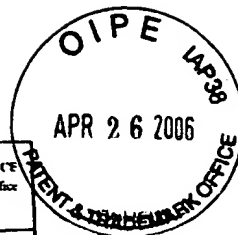
Roslin Institute (Edinburgh)



07-14-1997



100454558

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

DOCKET NUMBER 2980-003

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of conveying party(ies):

Keith Henry Stockman CAMPBELL and Ian WILLIOT

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: May 13, 1997

2. Name and address of receiving party(ies):

Name: Roslin Institute (Edinburgh)

Internal Address

Street Address: RoslinCity: Midlothian EH25 9PS State/Country: GREAT BRITAIN
ZIP:Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s). 08/803,165, filed February 19, 1997

B. Patent No(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: LOWE PRICE LEBLANC & BECKER

Internal Address:

Street Address: 99 Canal Center Plaza, Suite 300City: Alexandria State: VA ZIP: 223146. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

12-2237

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert L. Price, 22,685

Name and Registration No. of Person Signing

Signature

June 30, 1997

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

07/10/1997 TTON11 00000035 DAB:122237 08803165
01 FC:581 40.00 CHPATENT
REEL: 8582 FRAME: 0263

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned.

(1) Keith Henry Stockman Campbell (4) _____
 (2) Ian Wilmut (5) _____
 (3) _____ (6) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

Roslin Institute (Edinburgh), Roslin, Midlothian EH25 9PS, Great Britain

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

(a) for which an application for United States Letters Patent was filed on February 19, 1997, and identified by United States Serial No. 08/803,165; or

(b) for which an application for United States Letters Patent was executed on May 13th, 1997

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

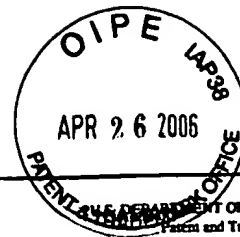
INVENTORS	DATE SIGNED
1) <u>Name: Keith Henry Stockman Campbell</u> <i>KH Campbell</i>	<u>13.05.97.</u>
2) <u>Name: Ian Wilmut</u> <i>I Wilmut</i>	<u>May 13 1997</u>
3) <u>Name:</u>	_____
4) <u>Name:</u>	_____
5) <u>Name:</u>	_____
6) <u>Name:</u>	_____

RECORDED: 06/30/1997

PATENT
 REEL: 8582 FRAME: 0264

MRD 5-29-98

06-10-1998

FORM PTO-159a
1-31-92

DOCKET NO.: 2980-003



100733314

Original documents or copy thereto:

1. Name of conveying party(ies): ROSILIN INSTITUTE (EDINBURGH)		2. Name and address of receiving party(ies): Name: <u>Roslin Institute (Edinburgh)</u> Internal Address: Street Address: <u>Roslin</u> City: <u>Midlothian EH25 9PS</u> State/Country: <u>GREAT BRITAIN</u> ZIP: Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>March 26, 1998 and April 7, 1998</u>			
4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: A. Patent / Application No(s). <u>08/803,165, filed February 19, 1997</u> B. Patent No(s). Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Gilberto M. Villacorta, PEPPER HAMILTON LLP</u> Internal Address: Street Address: <u>1300 Nineteenth St., N.W.</u> City: <u>Washington, D.C.</u> State: <u> </u> ZIP: <u>20036</u>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>50-0436</u>	
<div>06/06/1998 DROPTEN 00000171 300438 00003163 01 FC:581 40.00 CH</div> <div>DO NOT USE THIS SPACE</div>			
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <u>Gilberto M. Villacorta 34,038</u> <u>May 29, 1998</u> Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: <u>2</u>			
CMB No. 0851-0011 (exp. 4/94)			

Document # 71087

PATENT
REEL: 9220 FRAME: 0250

DOCKET NO.: 2980-003

Continuation of Recordation Cover Sheet, Item # 2:

**The Minister of Agriculture, Fisheries and Food
Nobel House
17 Smith Square
London, SW1P 3JR**

**Biotechnology and Biological Sciences Research Council
Polaris House
North Star Avenue
Swindon, SN2 1UH**

**PATENT
REEL: 9220 FRAME: 0251**

PATENT ASSIGNATION

by

(1) ROSLIN INSTITUTE (EDINBURGH),

in favour of

**ROSLIN INSTITUTE (EDINBURGH); THE MINISTER OF AGRICULTURE,
FISHERIES AND FOOD; and BIOTECHNOLOGY and BIOLOGICAL SCIENCES
RESEARCH COUNCIL**

1998

**Wright Johnston & Mackenzie
Solicitors
12 St Vincent Place
Glasgow G1 2EQ**

(Ref: A00020016/KMC/JCH)

**PATENT
REEL: 9220 FRAME: 0252**

PATENT ASSIGNATION

by



- (1) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("the Assignor")

in favour of

- (2) **ROSLIN INSTITUTE (EDINBURGH)**, incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS and **THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD** of Nobel House, 17 Smith Square, London, SW1P 3JR acting through the Ministry of Agriculture, Fisheries and Food; and **BIOTECHNOLOGY and BIOLOGICAL SCIENCES RESEARCH COUNCIL**, whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH (collectively referred to as "the Assignees")

WHEREAS

- (A) The Assignor is the proprietor of the Patent Applications set out in the Schedule annexed and executed as relative hereto (the "Patent Applications");
- (B) The Assignor has agreed to assign the Patent Applications to the Assignees; and
- (C) The Assignees have agreed to hold the Patent Applications and any granted patents issuing from such applications subject to a Co-Ownership Agreement to be entered into of even date herewith by the parties to this Agreement.

NOW IT IS HEREBY AGREED as follows:-

1. Assignment

The Assignor hereby assigns to the Assignees as joint owners the entire right, title and interest of the Assignor in and to the Patent Applications and any patents or other similar forms of protection granted pursuant to the Patent Applications together with the right to recover and to take all such proceedings as may be necessary for the

recovery of damage and other forms or relief in respect of all infringements of the Patent Applications whether taking place before or after the date of this Assignment.

2. **Further Assurance**

Each party agrees generally to sign, seal, execute and deliver all documents, deeds, licences and agreements and to do all acts and things which may be required or may be deemed necessary that any party for giving effect to this Assignment including, without limitation, entry into instruments confirmatory of such rights for registration with appropriate authorities anywhere in the world.

3. **Governing Law**

This Agreement shall be governed by Scots Law and the parties agree to submit to the non exclusive jurisdiction of the Scottish Courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule annexed hereto are executed as follows:-

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by Scott McGregor Lawrie their duly authorised signatory at London on 26th March 1998 before the following witness:-

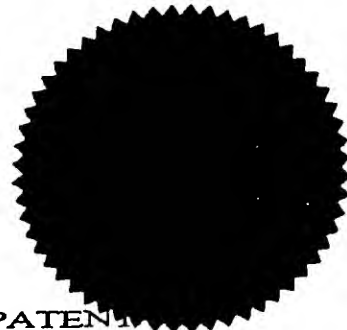
Witness: Justine A Strong
 Full Name: JUSTINE ANN STRONG
 Address: 12, ST VINCENT PLACE
GLASGOW
 Occupation: TRAINEE SOLICITOR

Scott Lawrie
 Authorised Signatory

Subscribed for and on behalf of THE MINISTER OF AGRICULTURE, FISHERIES AND FOOD by Dr Anthony Richard Burne, duly authorised signatory at London on 26th March 1998 before the following witness:-

Witness: Marylyn Wicks
 Full Name: MRS. MARYLYN WICKS
 Address: ST. CHRISTOPHER HOUSE
SOUTHWARK ST, LONDON
 Occupation: CIVIL SERVANT.

Dr Burne
 Authorised Signatory



Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by Professor
Grahame John Bulfield, Director and Chief Executive, at Roslin on 7th April
1992 before the following witness:-

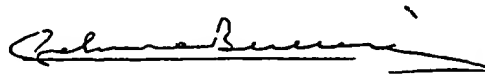
Witness: Cian A Nash

Full Name: CLARE ANNE NEWSON

Address: 12 ST VINCENT PLACE

GLASGOW

Occupation: SOLICITOR



This is the Schedule referred to in the Assignment by (1) Roslin Institute (Edinburgh) in favour of (2) Roslin Institute (Edinburgh); The Minister of Agriculture, Fisheries and Food; and Biotechnology and Biological Sciences Research Council

1. Unactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (MAGIC)

Filing Date	Priority Date	Country	Application No
30 th August 1996	31 st August 1995	International	PCT/GB96/02098
30 th August 1996	31 st August 1995	South Africa	96/7383
30 th August 1996	31 st August 1995	USA	08/803,165

International Patent Application - proceeding in:

Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

2. Quiescent Cell Populations for Nuclear Transfer (Quiescence)

Filing Date	Priority Date	Country	Application No
30 th August 1996	31 st August 1995	International	PCT/GB96/02099
30 th August 1996	31 st August 1995	South Africa	96/7390
30 th August 1996	31 st August 1995	USA	08/802,282

International Patent Application - proceeding in:

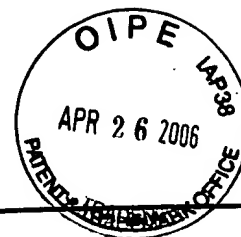
Czech Republic, Hungary, Norway, Poland, Russian Federation, Ukraine, Canada, Brazil, Mexico, Cuba, Australia, China, Israel, Japan, Republic of Korea, New Zealand, Singapore, Vietnam, United Kingdom, Hong Kong, Europe (Austria, Belgium, Switzerland/Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Sweden).

Scott MacLennan

Alma

Robert
RECORDED: 05/29/1998

PATENT
REEL: 9220 FRAME: 0256

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 21, 2006

PTAS

700250393A

700250393A

FINNEGAN, HENDERSON, FARABOW, GARRETT &
LLP
901 NEW YORK AVENUE, NW
WASHINGTON, DC 20001-4413**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 03/14/2006

REEL/FRAME: 017336/0136
NUMBER OF PAGES: 10BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 9960.0002-02ASSIGNOR:
ROSLIN INSTITUTE (EDINBURGH)

DOC DATE: 06/30/2003

ASSIGNOR:
SECRETARY OF STATE FOR
ENVIRONMENT, FOOD & RURAL
AFFAIRS

DOC DATE: 06/30/2003

ASSIGNOR:
BIOTECHNOLOGY AND BIOLOGICAL
SCIENCES RESEARCH COUNCIL
(BBSRC)

DOC DATE: 05/22/2003

017336/0136 PAGE 2

ASSIGNEE:

ROSLIN (EDINBURGH)

ROSLIN

MIDLOTHIAN, EH25 9PS, UNITED

KINGDOM

SERIAL NUMBER: 08802282

PATENT NUMBER: 6147276

TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

FILING DATE: 02/19/1997

ISSUE DATE: 11/14/2000

SERIAL NUMBER: 08803165

PATENT NUMBER: 6252133

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

FILING DATE: 02/19/1997

ISSUE DATE: 06/26/2001

SERIAL NUMBER: 09225233

PATENT NUMBER:

TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

FILING DATE: 01/04/1999

ISSUE DATE:

SERIAL NUMBER: 09658862

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 09/08/2000

ISSUE DATE:

SERIAL NUMBER: 09650194

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 08/29/2000

ISSUE DATE:

SERIAL NUMBER: 09650285

PATENT NUMBER: 6525243

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL NUCLEI WHILE MAINTAINING CORRECT PLOIDY

FILING DATE: 08/29/2000

ISSUE DATE: 02/25/2003

SERIAL NUMBER: 09973701

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 10/11/2001

ISSUE DATE:

SERIAL NUMBER: 09989125

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

ISSUE DATE:

SERIAL NUMBER: 09989128

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

ISSUE DATE:

SERIAL NUMBER: 09989126

PATENT NUMBER:

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

FILING DATE: 11/21/2001

ISSUE DATE:

SERIAL NUMBER: 10118337

FILING DATE: 04/09/2002

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

017336/0136 PAGE 3

SERIAL NUMBER: 10151304 FILING DATE: 05/21/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10151305 FILING DATE: 05/21/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10190611 FILING DATE: 07/09/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10190617 FILING DATE: 07/09/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10234854 FILING DATE: 09/05/2002
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10914161 FILING DATE: 08/10/2004
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10915338 FILING DATE: 08/11/2004
PATENT NUMBER: ISSUE DATE:
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 10909845 FILING DATE: 08/03/2004
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 11068903 FILING DATE: 03/02/2005
PATENT NUMBER: ISSUE DATE:
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS FOR NUCLEAR TRANSFER

SERIAL NUMBER: 08802282 FILING DATE: 02/19/1997
PATENT NUMBER: 6147276 ISSUE DATE: 11/14/2000
TITLE: QUIESCENT CELL POPULATIONS FOR NUCLEAR TRANSFER IN THE PRODUCTION
OF NON-HUMAN MAMMALS AND NON-HUMAN MAMMALIAN EMBRYOS

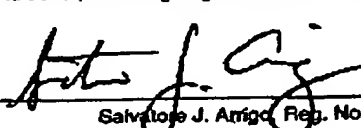
SERIAL NUMBER: 08803165 FILING DATE: 02/19/1997
PATENT NUMBER: 6252133 ISSUE DATE: 06/26/2001
TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF NUCLEI FROM
QUIESCENT AND NON-QUIESCENT CELLS WHILE MAINTAINING CORRECT PLOIDY

SERIAL NUMBER: 09650285 FILING DATE: 08/29/2000

TITLE: UNACTIVATED OOCYTES AS CYTOPLAST RECIPIENTS OF QUIESCENT CELL
NUCLEI WHILE MAINTAINING CORRECT PLOIDY

017336/0136 PAGE 4

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

U.S. 141/2000 REPRODUCTION COVER SHEET PATENTS ONLY		U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 6960.0002-02 Attorney Customer Number: 22,862	
To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.			
1. Name of conveying party(ies): (1) Roslin Institute (Edinburgh) (Dated: June 30, 2003)		2. Name and address of receiving party(ies): Name: Roslin (Edinburgh)	
Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No See Attachment A		Internal Address: Roslin	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger		Street Address:	
<input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name		City: Midlothian, EH25 8PS	
<input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment		State: The United Kingdom Zip Code: [Text]	
<input type="checkbox"/> Executive Order 9494, Confirmatory License <input type="checkbox"/> Other:		Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Execution Date: [Date(s)]: (1) June 30, 2003 (2) June 10, 2003 (3) May 22, 2003			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: [Type appropriate information]			
A. Patent Application Number(s): 08/802,282 08/803,185		B. Patent Number(s): 6,147,276 6,252,133 6,625,243	
Additional numbers attached? <input checked="" type="checkbox"/> Yes See Attachment B <input type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP. Street Address: 901 New York Avenue, N.W. City: Washington, D.C. State: Zip: 20001-4413		6. Total number of applications and patents involved: 23 7. Total fee (37 CFR 1.21(h) and 3.41): \$40 <input type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916) <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
8. Deposit Account No.: 06-0916			
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
Signed:  Salvatore J. Amico, Reg. No. 46,083		3/14/06 Date	
Total number of pages including cover sheet, attachments and documents: 10			

1. (continued) Attachment A: Additional Conveying Parties

- (2) Secretary of State for Environment, Food & Rural Affairs (Dated: June 10, 2003)**
("The Secretary of State") acting through the
Department for the Environment, Food & Rural Affairs ("DEFRA")
formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF")
- (3) Biotechnology and Biological Sciences Research Council ("BBSRC")**
(Dated: May 22, 2003)

4. (continued) Attachment B Patent Application Nos.**A. U.S. Patent Application/Serial No.**

09/225,233
09/658,862
09/650,194
09/650,285
09/973,701
09/989,125
09/989,128
09/989,126
10/118,337
10/151,304
10/151,305
10/190,611
10/190,617
10/234,854
10/914,161
10/915,338
10/909,845
11/068,903

C-CLK
C-DEAP**ASSIGNATION****BY**

ROSLIN INSTITUTE (EDINBURGH) incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("Roslin");

THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD & RURAL AFFAIRS of Nobel House, 17 Smith Square, London, SW1P 3JR ("the Secretary of State") acting through the Department for the Environment, Food & Rural Affairs ("DEFRA") formerly known as the Ministry for Agriculture Fisheries and Food ("MAFF"); and

BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL whose principal office is at Polaris House, North Star Avenue, Swindon, SN2 1UH ("BBSRC");

In favour of

ROSLIN INSTITUTE (EDINBURGH) incorporated under the Companies Acts as a company limited by guarantee with registered number 157100 and having its registered office at Roslin, Midlothian, EH25 9PS ("Roslin").

WHEREAS:

- (A) Roslin, the Secretary of State and BBSRC are legal and beneficial owners of the patents and patent applications set out in the Schedule annexed and identified as relative hereto ("the Patents").
- (B) Roslin, the Secretary of State and BBSRC have agreed to assign any rights and interest they may have in the Patents to Roslin on the terms set out in this Assignment.

IT IS AGREED as follows:**1. ASSIGNATION**

In consideration of the sum of £1 to be paid by each of Roslin, the Secretary of State and BBSRC to each of Roslin, the Secretary of State and BBSRC (the receipt and sufficiency of which is hereby acknowledged) Roslin, the Secretary of State and BBSRC hereby assign to Roslin:


- 1.1 all of its right, title and interest in and to the Patents; and

- 1.2 all rights and powers arising or accrued therefrom (whether under statute or common law) including the right to sue for damages and other remedies in respect to any prior infringement of the assigned rights in or in respect of the Patents and to retain any and all sums obtained through such actions and the right to apply for, prosecute and obtain patent or similar protection throughout the world in respect of the inventions therein including any rights to claim priority therefrom so that the grant of any such patent or similar protection shall be in the name of and vest in Roslin.

2. LAW AND JURISDICTION

This Assignment shall be governed by and construed in accordance with Scots law and the parties agree to submit to the non-exclusive jurisdiction of the Scottish courts: IN WITNESS WHEREOF these presents consisting of this and the preceding page together with the Schedule are executed as follows:

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by J-W WITHERS, duly authorised signatory, at Roslin on 20 June 2003 before the following witness:


Witness



Authorised Signatory

FRANCES BURGESS
Full Name

% ROSLIN INSTITUTE
Address

ROSLIN
P.A.
Occupation

Subscribed for and on behalf of BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL by DR D YARROW, duly authorised signatory, at SWINDON on 22 MAY 2003 before the following witness:


Witness

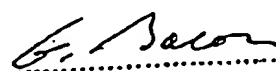

Authorised Signatory

MARY McDOWALL
Full Name

BESAL POLARIS HOUSE
Address

NORTH STAR AVE, SLANDERS
ADMIN MANAGER INNOVATION UNIT
Occupation

Subscribed for and on behalf of THE SECRETARY OF STATE FOR THE ENVIRONMENT,
FOOD & RURAL AFFAIRS by D: A. R. BURNE, duly authorised
signatory at LONDON on 10 June 2003 2003 before the
following witness:


Witness


Authorised Signatory

EDWARD GRAHAM BACON
Full Name

CROMWELL HOUSE, LONDON SW1P 3TH
Address

HEAD OF BRANCH B
RESEARCH POLICY & INTERNATIONAL DIVISION, DEFRA
Occupation

Subscribed for and on behalf of ROSLIN INSTITUTE (EDINBURGH) by
at on 2003 before the following witness:-

.....
Witness

.....
Full Name

.....
Address

.....
Occupation

This is the Schedule referred to in the foregoing Assignment by (1) Roslin Institute (Edinburgh); (2) Department for the Environment, Food & Rural Affairs; and (3) Biotechnology and Biological Sciences Research Council in favour of Roslin Institute (Edinburgh).

THE PATENTS

1. Quiescent Cell Populations for Nuclear Transfer (Quiescent Cells)

Priority Date: 31 August 1995

Priority Application no.: GB 9517780.4 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Application no.: PCT/GB96/02099 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Filing Date: 30 August 1996

* - Indicates divisional application filed
† - European patent application designates: AT, BE, CH/LI, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
USA	700/201	P18787US	08/802,282	6,147,276	Granted
USA*	700/202	J18787US	09/225,233	-	Pending
United Kingdom	700/201UK	V18787GB	9802915.0	2318578	Granted
United Kingdom*	700/202UK D	J18787GB	9824304.1	2331751	Granted
EPO	700/201EP	P18787EP	96928587.3	0849890	Granted
Austria	700/201EP	P18787EP	96928587.3	-	Granted
Belgium	700/201EP	P18787EP	96928587.3	-	Granted
Switz./Liechtenstein	700/201EP	P18787EP	96928587.3	-	Granted
Germany	700/201EP	P18787EP	96928587.3	-	Granted
Denmark	700/201EP	P18787EP	96928587.3	-	Granted
Spain	700/201EP	P18787EP	96928587.3	-	Granted
France	700/201EP	P18787EP	96928587.3	-	Granted
Ireland	700/201EP	P18787EP	96928587.3	-	Granted
Italy	700/201EP	P18787EP	96928587.3	-	Granted
Luxembourg	700/201EP	P18787EP	96928587.3	-	Granted
Monaco	700/201EP	P18787EP	96928587.3	-	Granted
Netherlands	700/201EP	P18787EP	96928587.3	-	Granted
Sweden	700/201EP	P18787EP	96928587.3	-	Granted
Slovenia	700/201EP	P18787EP	96928587.3	-	Granted

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
EPO*	700/202EP D	J18787EP	98203752.5	0930009	Pending
EPO*	700/203EP D	K18787EP	99204105.3	1005789	Pending
South Africa	700/201SA	P18787ZA	96/7390	96/7390	Granted
Czech Republic	700/201CZ	P18787CZ	PV608-98	-	Abandoned
Hungary	700/201HU	P18787HU	P9900234	-	Abandoned
Norway	700/201NO	P18787NO	980845	-	Abandoned
Poland	700/201PL	P18787PL	P325331	-	Abandoned
Russian Federation	700/201RU	P18787RU	98105782	-	Abandoned
Ukraine	700/201UA	P18787UA	98031551	-	Abandoned
Canada	700/201CA	P18787CA	2228588	-	Pending
Brazil	700/201BR	P18787BR	9610034-6	-	Pending
Mexico	700/201MX	P18787MX	981646	-	Pending
Cuba	700/201CU	P18787CU	28/98	-	Abandoned
Australia	700/201AU	P18787AU	68310/96	716956	Granted
Australia	700/202AU D	J18787AU	35418/00	-	Pending
China	700/201CN	P18787CN	96197891.0	-	Pending
Israel	700/201IL	P18787IL	123298	-	Abandoned
Japan	700/201JP	P18787JP	509996/96	-	Pending
South Korea	700/201KR	P18787KR	701381/98	-	Pending
New Zealand	700/201NZ	P18787NZ	316149	316149	Granted
New Zealand*	700/202NZ D	J18787NZ	334288	334288	Granted
New Zealand*	700/203NZ D	K18787NZ	337311	-	Pending
Singapore	700/201SG	P18787SG	9801334-5	50267	Granted
Singapore*	700/202SG D	J18787SG	9900937-5	75155	Granted
Vietnam	700/201VN	P18787VN	19980153	2746	Abandoned
Hong Kong	700/201HK	P18787HK	98104138.8	1004938	Granted
Hong Kong*	700/202HK D	J18787HK	99104594.4	1018394	Granted

2. Unactivated Oocytes and Cytoplasm Recipients for Nuclear Transfer (Magic)

Priority Date: 31 August 1995

Priority Application no.: GB 9517779.6 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Application no.: PCT/GB96/02098 filed in the name of ROSLIN INSTITUTE (EDINBURGH)

International Filing Date: 30 August 1996

* - Indicates divisional/continuation application filed

† - European patent application designates: AT, BE, CH/LI, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI

- (1) - USSN 09/658,862 divisional from USSN 08/803,165
- (2) - USSN 09/650,194 continuation of USSN 08/803,165
- (3) - USSN 09/650,285 continuation of USSN 08/803,165
- (4) - USSN 09/973,701 continuation of USSN 09/650,285
- (5) - USSN 09/989,125 continuation of USSN 09/650,285
- (6) - USSN 09/989,128 continuation of USSN 09/650,285
- (7) - USSN 09/989,126 continuation of USSN 09/650,285
- (8) - USSN 10/118,337 continuation of USSN 09/989,125
- (9) - USSN 10/151,304 continuation of USSN 09/989,128
- (10) - USSN 10/151,305 continuation of USSN 09/989,126
- (11) - USSN 10/190,611 continuation of USSN 09/650,285
- (12) - USSN 10/190,617 continuation of USSN 09/650,285
- (13) - USSN 10/234,854 continuation of USSN 10/151,305

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
USA	710/201	P18826US	08/803,165	6,252,133	Granted
USA ^{*(1)}	710/202 D	J18826US	09/658,862	-	Pending
USA ^{*(2)}	710/204 C	V18826US	09/650,194	-	Pending
USA ^{*(3)}	710/203 C	W18826US	09/650,285	-	Pending
USA ^{*(4)}	710/210 C	W18826US-1	09/973,701	-	Pending
USA ^{*(5)}	710/205 C	W18826US-2	09/989,125	-	Pending
USA ^{*(6)}	710/206 C	W18826US-3	09/989,128	-	Pending
USA ^{*(7)}	710/207 C	W18826US-4	09/989,126	-	Pending
USA ^{*(8)}	710/211 C	W18826US-5	10/118,337	-	Abandoned
USA ^{*(9)}	710/212 C	W18826US-6	10/151,304	-	Abandoned
USA ^{*(10)}	710/213 C	W18826US-7	10/151,305	-	Abandoned
USA ^{*(11)}	710/209 C	W18826US-8	10/190,611	-	Abandoned
USA ^{*(12)}	710/214 C	W18826US-9	10/190,617	-	Pending
USA ^{*(13)}	-	W18826US-10	10/234,854	-	Pending
United Kingdom	710/201UK	V18826GB	9802916.8	2318792	Granted
United Kingdom*	710/202UK D	J18826GB	9926730.4	2340493	Granted
EPO†	710/201EP	P18826EP	96928586.5	0847237	Pending
South Africa	710/201SA	P18826ZA	96/7383	96/7383	Granted
Czech Republic	710/201CZ	P18826CZ	PV604-98	-	Abandoned
Hungary	710/201HU	P18826HU	P9802485	-	Abandoned
Norway	710/201NO	P18826NO	98064E	-	Abandoned

Country	Geron ref.	K&S ref.	Application no.	Publication / Grant no.	Status
Poland	710/201PL	P18826PL	P325336	-	Abandoned
Russian Federation	710/201RU	P18826RU	98105617	-	Abandoned
Ukraine	710/201UA	P18826UA	98031552	-	Abandoned
Canada	710/201CA	P18826CA	2229657	2229657	Pending
Brazil	710/201BR	P18826BR	9610013-3	-	Pending
Mexico	710/201MX	P18826MX	981645	-	Pending
Mexico*	710/202MX D	J18826MX-1	PA/a/2001/010 145	-	Pending
Cuba	710/201CU	P18826CU	29/98	-	Abandoned
Australia	710/201AU	P18826AU	68309/96	728809	Granted
Australia*	710/202AU D	J18826AU	28013/01	-	Pending
Australia*	710/203AU D	K18826AU	28014/01	-	Pending
China	710/201CN	P18826CN	96197892.9	-	Pending
Israel	710/201IL	P18826IL	123417	-	Abandoned
Japan	710/201JP	P18826JP	509995/96	-	Pending
South Korea	710/201KR	P18826KR	98-701382	-	Pending
New Zealand	710/201NZ	P18826NZ	316148	316148	Granted
New Zealand*	710/202NZ D	J18826NZ	335407	335407	Granted
New Zealand*	710/203NZ D	K18826NZ	504101	-	Pending
Singapore	710/201SG	P18826SG	9801330-3	-	Pending
Singapore*	710/201SG D	J18826SG	9900941-7	75919	Granted
Vietnam	710/201VN	P18826VN	S19980152	2747	Abandoned
Hong Kong	710/201HK	P18826HK	98104135.1	1004937	Granted
Hong Kong*	710/202HK D	J18826HK	00103527.6	1024381	Granted

Signed on behalf of Roslin

Signed on behalf of DEFRA

Signed on behalf of BBSRC